CLAIMS

1. An image processing computer system for a photogrammetric analytical measurement in which a survey map is produced by connecting at least two sets of pictures featuring a photographed target located at a given target position, said system comprising:

a monitor that displays a scene including a picture-display area and an editing-display area;

a first monitor controller that selectively displays only one picture in each set on said picture-display area of said scene;

a second monitor controller that transfers a displayed picture from said picture-display area to said editing-display area and vice versa; and

a third monitor controller that visually displays a connection relationship between pictures displayed on said editing-display area of said scene.

2. An image processing computer system as set forth in claim 1, wherein a display of pictures on said picture-display area and said editing-display area is performed at a reduced size.

3. An image processing computer system as set forth in claim 1, further comprising a transfer-indicator that indicates a picture to be transferred from said picture-

display area to said editing-display area and vice versa.

4. An image processing computer system as set forth in claim 3, wherein a marker is displayed on said editing-display area under control of said second monitor controller to

5 indicate a location, at which the picture is to be transferred from said picture-display area to said editing-display area, when said picture is indicated by said transfer-indicator.

5. An image processing computer system as set forth in claim 4, wherein said marker comprises a frame representing an

10 outline of the picture to be transferred from said picture-display area to said editing-display area.

6. An image processing computer system as set forth in claim 4, wherein said marker is movable under control of said second monitor controller on said editing-display area.

15 7. An image processing computer system as set forth in claim 1, wherein a connecting-strip is displayed on said editing-display area under control of said third monitor controller to indicate said connection relationship between the pictures displayed on said editing-display area of said

20 scene.

8. An image processing computer system as set forth in claim 7, wherein said connecting-strip is displayed as a strip connected between the centers of the two adjacent pictures at the back faces thereof.

25 9. An image processing computer system as set forth in

-67-

claim 1, further comprising a fourth monitor controller that moves a picture, transferred from said picture-display area to said editing-display area, from one location to another location on said editing-display area.

5   10. An image processing computer system as set forth in claim 9, further comprising a movement-indicator that indicates a picture to be moved on said editing-display area.

          11. An image processing computer system as set forth in claim 10, wherein a marker is displayed on said editing-display area under control of said fourth monitor controller to indicate a location, at which the picture is to be moved, when said picture is indicated by said movement-indicator.

          12. An image processing computer system as set forth in claim 11, wherein said marker comprises a frame representing an outline of the picture to be moved on said editing-display area.

          13. An image processing computer system for a photogrammetric analytical measurement in which a survey map is produced by connecting a first group including at least a set of pictures featuring a photographed target located at a first target position and a second group including at least a set of pictures featuring a photographed target located at a second target position to each other, said system comprising:

          a monitor that displays a first scene including a picture-display area and an editing-display area;

-68-

a first monitor controller that selectively displays

only one picture in a set included in said first group and

only one picture in a set included in said second group, on

said picture-display area of said first scene;

5   a second monitor controller that transfers a displayed

picture from said picture-display area to said editing-display

area and vice versa; and

a third monitor controller that visually displays a

connection relationship between pictures displayed on said

10 editing-display area of said first scene.

14. An image processing computer system as set forth

in claim 13, wherein a display of pictures on said picture-

display area and said editing-display area is performed at a

reduced size.

15 15. An image processing computer system as set forth

in claim 13, wherein each of said first and second groups

includes at least two sets of pictures, and all respective

pictures, included in the sets forming each group, are

displayed on said picture-display area in photographing order

20 under control of said first monitor controller.

16. An image processing computer system as set forth

in claim 15, wherein, upon transferring one of the respective

pictures, included in the sets forming each group, from said

picture-display area to said editing-area and vice versa, a

25 transfer of the remaining pictures is simultaneously performed

-69-

under control of said second monitor controller.

17. An image processing computer system as set forth in claim 16, wherein, upon transferring one of the respective pictures, included in the sets forming each group, from said picture-display area to said editing-area, a transfer of the remaining pictures is simultaneously performed under control of said second monitor controller, and all the respective pictures, included in the sets forming the other group, are displayed on said picture-display area under controller of said first monitor controller.

18. An image processing computer system as set forth in claim 13, further comprising a transfer-indicator that indicates a picture to be transferred from said picture-display area to said editing-display area and vice versa.

19. An image processing computer system as set forth in claim 18, wherein a marker is displayed on said editing-display area under control of said second monitor controller to indicate a location, at which the picture is to be transferred from said picture-display area to said editing-display area, when said picture is indicated by said transfer-indicator.

20. An image processing computer system as set forth in claim 19, wherein said marker comprises a frame representing an outline of the picture to be transferred from said picture-display area to said editing-display area.

21. An image processing computer system as set forth in claim 19, wherein said marker is movable under control of said second monitor controller in said editing-display area.

22. An image processing computer system as set forth
5   in claim 13, wherein a connecting-strip is displayed on said editing-display area under control of said third monitor controller to indicate said connection relationship between the pictures displayed on said editing-display area of said first scene.

10   23. An image processing computer system as set forth in claim 22, wherein said connecting-strip is displayed as a strip connected between the centers of the two adjacent pictures at the back faces thereof.

24. An image processing computer system as set forth
15   in claim 13, further comprising a fourth monitor controller that moves a picture, transferred from said picture-display area to said editing-display area, from one location to another location on said editing-display area.

25. An image processing computer system as set forth
20   in claim 24, further comprising a movement-indicator that indicates a picture to be moved on said editing-display area.

26. An image processing computer system as set forth in claim 25, wherein a marker is displayed on said editing-display area under control of said fourth monitor controller
25   to indicate a location, at which the picture is to be moved,

-71-

when said picture is indicated by said movement-indicator.

27. An image processing computer system as set forth
in claim 26, wherein said marker comprises a frame
representing an outline of the picture to be moved on said
5   editing-display area.

28. An image processing computer system as set forth
in claim 13, further comprising a connection-indicator that
indicates a picture, displayed on said picture-display area,
and a picture, displayed on said editing-display area, to be
10 connected to each other when the former picture is transferred
to said editing-display area.

29. An image processing computer system as set forth
in claim 28, further comprising a fourth monitor controller
that changes said first scene of said monitor into a second
15 scene in which a connection-processing for connecting said
pictures to each other is performed before said former picture
is transferred to said editing-display area.

30. An image processing computer system as set forth
in claim 29, wherein two pictures, included in a set forming
20 said first group, and two pictures, included in a set forming
said second group, are displayed on said second scene of said
monitor under control of said fourth monitor controller for
said connection-processing.

31. An image processing computer system as set forth
25 in claim 30, wherein said two pictures, included in a set

forming said first group, and said two pictures, included in a

set forming said second group, have at least two common

connecting-image-points for said connection-processing.

32. An image processing method for a photogrammetric

analytical measurement in which a survey map is produced by

connecting a first group including at least a set of pictures

featuring a photographed target located at a first target

position and a second group including at least a set of

pictures featuring a photographed target located at a second

target position to each other, said method comprising steps

of:

displaying a scene, including a picture-display area

and an editing-display area, on a monitor;

selectively displaying only one picture in a set

included in said first group and only one picture in a set

included in said second group, on said picture-display area of

said scene;

transferring a displayed picture from said picture-

display area to said editing-display area; and

visually displaying a connection relationship between

pictures displayed on said editing-display area of said scene.

33. A memory medium storing an image processing

program for a photogrammetric analytical measurement in which

a survey map is produced by connecting a first group including

at least a set of pictures featuring a photographed target

-73-

located at a first target position and a second group

including at least a set of pictures featuring a photographed

target located at a second target position to each other, said

program featuring steps of:

5　　displaying a scene, including a picture-display area

and an editing-display area, on a monitor;

selectively displaying only one picture in a set

included in said first group and only one picture in a set

included in said second group, on said picture-display area of

10 said scene;

transferring a displayed picture from said picture-

display area to said editing-display area; and

visually displaying a connection relationship between

pictures displayed on said editing-display area of said scene.